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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/791,722	03/04/2004	Katsuyuki Morii	118395	5308
25944 7590 03/01/2007 OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320			EXAMINER	
			CREPEAU, JONATHAN	
			ART UNIT	PAPER NUMBER
		1745	1745	
SHORTENED STATUTOR	TATUTORY PERIOD OF RESPONSE MAIL DATE DELIVERY M		Y MODE	
3 MONTHS		03/01/2007	PAPER	

# Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
		10/791,722	MORII ET AL.			
Office Action Summary		Examiner	Art Unit			
	•	Jonathan S. Crepeau	1745			
· - · · · · · · · · · · · · · · · · · ·	The MAILING DATE of this communication app	· · · · · · · · · · · · · · · · · · ·				
Period for	• •					
· WHI( - Exte after - If NO - Failt Any	IORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D ensions of time may be available under the provisions of 37 CFR 1.1 or SIX (6) MONTHS from the mailing date of this communication. D period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	PATE OF THIS COMMUNICATION  136(a). In no event, however, may a reply be to will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDON	NN. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 03 J	anuary 2007.				
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) <u>1-8</u> is/are pending in the application.  4a) Of the above claim(s) <u>7 and 8</u> is/are withdr  Claim(s) is/are allowed.  Claim(s) <u>1-6</u> is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	·				
Applicat	ion Papers					
9)[	The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on <u>04 March 2004</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign  All b) Some * c) None of:  1. Certified copies of the priority document  2. Certified copies of the priority document  3. Copies of the certified copies of the priority document  application from the International Burea  See the attached detailed Office action for a list	ts have been received. ts have been received in Applica crity documents have been receiv u (PCT Rule 17.2(a)).	tion No ved in this National Stage			
Attachmer	• •		W/DTO 442)			
2) 🔲 Notic 3) 🔯 Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date See Continuation Sheet.	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date			

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :3-4-04 6-10-05 9-23-05 9-21-06.

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### **DETAILED ACTION**

### Election/Restrictions

1. Applicant's election with traverse of Group I in the reply filed on January 3, 2007 is acknowledged. The traversal is on the ground(s) that claims 7 and 8 depend from claim 1 and the search for the Group I claims would encompass the Group II claims. This is not found persuasive because the inventions require separate searches (method and apparatus) and a search for the method is not required for the Group II claims. Given the different fields of search and classifications of the inventions, the requirement is still deemed proper and is therefore made FINAL.

## Claim Objections

2. Claim 2 is objected to because of the following informalities: in the last clause, the claim recites "at least one of forming the first reaction layer and forming the second reaction layer forming the first reaction layer or the second reaction layer," which appears to contain redundancies. Appropriate correction is required.

# Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 2002-298860. The reference is directed to a method of forming an electrode catalyst layer of a fuel cell. As disclosed in the abstract, the catalyst may be sprayed repeatedly over the same area of a substrate that can be an electrolyte (11) or a gas diffusion layer (36) (see [0008]). The gas diffusion layer corresponds to the claimed "current collecting layer." As shown in Figure 3, a plurality of discharging nozzles may be used to form the reaction layer at predetermined intervals.

Regarding claims 4 and 5, unnecessary material (i.e., solvent) is removed from the reaction layer by a drying process at 80-100 degrees C (see [0014]). Regarding claim 2, the reference teaches that the fuel cell comprises two separator plates (i.e., substrates) (18) sandwiching a membrane electrode assembly (see Fig. 6). The membrane electrode assembly has two gas diffusion (current collecting) layers (13, 16), two catalyst (reaction) layers (12, 15) and an electrolyte membrane (11) (see [0007]). The steps of assembling the fuel cell components read on the steps

Thus, the instant claims are anticipated.

of "forming" the components as recited in claim 2.

### Double Patenting

5. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference

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claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

6. Claims 1-6 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over the claims of copending Application Nos. 10/791,789 and 10/781,752. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the copending applications render obvious the instant claims.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

#### Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan, can be reached at (571) 272-1292. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Crepeau Primary Examiner Art Unit 1745 February 23, 2007